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Abstract

The invention concerns a process for producing wear-resistant boride layers on metal material surfaces. The process is characterized in that boron halide selected from the group comprising boron trifluoride, boron tribromide, boron triiodide and their mixtures is mixed with hydrogen and optionally argon and/or nitrogen in order to produce a reaction gas containing between 0.1 and 30 vol % boron halide. The resultant mixture is activated by a plasma discharge such that boron can be transferred from the plasma to the metal surface.

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